BC hydro

Response Document and
Summary of Commitments

Kelly Lake to Cheekye Substation Second 500 kV Transmission Line

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B.C. HYDRO

KELLY LAKE

TO

CHEEKYE SUBSTATION

SECOND 500 kV TRANSMISSION LINE

RESPONSE DOCUMENT AND SUMMARY OF COMMITMENTS

October 1991

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SECTION A - INTRODUCTION

A.1 GENERAL

For over two years, B.C. Hydro has been studying route options for a proposed 500 kV transmission line between Kelly Lake Substation near Clinton and Cheekye Substation near Squamish. As part of these studies, B.C. Hydro has completed detailed technical and environmental studies and has discussed the project with a diverse range of individuals, groups, and agencies as part of the public consultation program. (For the purposes of this report, the "public" is defined to include government and elected officials; Indian Bands; community; business and special interest groups, and all residents in the study area, as well as other interested individuals and groups outside the study area).

Throughout these discussions, a number of points have been identified and recorded. B.C. Hydro's Kelly Lake - Cheekye Project Team has made its best effort to provide immediate responses by incorporating changes in the project design, providing clarification and additional information or by making commitments should the project be approved by the Minister of Energy, Mines and Petroleum Resources. In other instances, concerns were addressed by current corporate practices and policies.

A.2 PURPOSE

The purpose of this report is to: (1) document key project and stakeholder questions and interests that arose during the public consultation process, (2) outline B.C. Hydro's responses to and outstanding commitments on those concerns, and (3) indicate B.C. Hydro's methodology for ensuring commitments are met. In this document, the term "responses" is defined as action undertaken by B.C. Hydro to address comments or answer questions raised. "Commitments" are defined as specific actions which will be undertaken or completed.

This document is not intended to be an exhaustive listing of comments, issues or questions, but rather a summary of the KEY results. A number of commitments have already been completed during the last two years and have not included for the sake of brevity.

A.3 REPORT ORGANIZATION

This report has been organized in four sections. Section A provides an Introduction.

Section B provides B.C. Hydro's responses to and commitments for Key Project Concerns identified through the public consultation process and discussed in the Kelly Lake to Cheekye Substation Second 500 kV Transmission Line Public Consultation Reports (Phases 1 and 2, Appendices Volume I & II, & Addendum - Phase 3) written by Synergistics Consulting Ltd.

Section C summarizes B.C. Hydro's responses and commitments to key stakeholder groups, such as local governments, regional districts, interest groups, and property owners.

Section D describes the process that B.C. Hydro will utilize to ensure on-going tracking and fulfilment of outstanding commitments - the use of a tracking record called the "Commitment Document". The section outlines the process by which the "Commitment Document" will be utilized, as well as describes the format of the report.

Appendix 1 provides an example of the "Commitment Document" for two areas requiring further information and follow up. It outlines outstanding B.C. Hydro commitments regarding electric and magnetic field (EMF) effects, and commitments for any impacts on radio and television services provided by a local T.V. association. A preliminary legend which lists the coding for various Key Project Comments, Stakeholders and Route Segments is also provided in Appendix 1.

Appendix 2 provides and illustration of structure types and lists the 18 Information Centres utilized during the public consultation program.

SECTION B - RESPONSES AND COMMITMENTS ON KEY PROJECT CONCERNS

B.1 ELECTRIC AND MAGNETIC FIELD (EMF) EFFECTS

(a) Description

The perceived potential for adverse health effects to human beings, and to a lesser extent, farm animal health, from electric and magnetic fields (EMF) remained an area of public interest throughout B.C. Hydro's public consultation program.

The information requests by the public covered such questions as:

1. General and more regional EMF concerns (e.g. Yalakom, Lillooet area and Upper Cheakamus Valleys, Squamish area).

2. Site-specific EMF concerns identified near private homes and schools (e.g. Pemberton, Squamish, Whistler, Gates Lake, North Vancouver Outdoor School).

3. Strength of fields relative to the distance from the transmission lines.

4. Possible shielding from the fields.

5. Association between EMF and diseases.

6. Cumulative effects of several transmission lines on human health.

(b) B.C. Hydro's Response

1. B.C. Hydro anticipated public interest in EMF and at the outset of the public consultation program (May 1989) provided several different levels of EMF information and articles to regional libraries. B.C. Hydro's Project Manager, EMF Issues attended Project Open Houses to answer questions and respond to concerns.

2. Separate meetings for groups and residents were held to present EMF information and answer questions.

3. Magnetic field measurements were taken at selected locations along the Kelly Lake - Cheekye transmission line corridor.

4. Through its Public Information Request Program and Kelly Gibney (Project Manager, EMF Issues) all information requests were answered. At this time there is no practical method for shielding magnetic fields.

5. Epidemiologists and medical specialists have studied workers exposed to electric and magnetic fields, such as lineman and welders. After examining their physical and psychological well-being, they found no indication of adverse effects from these field exposures. Studies of the general population exposed to electric and magnetic fields from power lines also did not show any increase in the risk of developing cancer.

   A similar consensus, regarding the general public, has been reached by the World Health Organization (1984, 1987), the New York State Power Lines Project (1987) and Health and Welfare Canada (1990). After evaluating all the available data, these organizations found that no risk to human health resulting from exposure to electric or magnetic fields from power transmission lines has been established.

   Within British Columbia this conclusion is supported by the B.C. Utilities Commission Inquiry (July 1989) regarding the possible relocation of a 230 kV line due to EMF. That inquiry concluded, in part, "There is, however, insufficient evidence to support a presumption of an actual health risk. This conclusion holds for . . . residences close to high voltage transmission lines."

6. The strength of magnetic fields resulting from multiple or adjacent transmission lines varies with distance and changes constantly. This change is due to fluctuating current in the lines as well as the direction current travels through a given line. In some cases magnetic fields are reduced because of the cancellation effect created by other transmission lines in close proximity. Cumulative

or prolonged exposure to magnetic fields has not been shown to be a cause of a human health effect.

(c) B.C. Hydro's Commitment

B.C. Hydro will continue to address all EMF inquiries and provide available EMF research information upon request and at regional libraries (for locations see Appendix 2).

B.C. Hydro is committed to the search for a better understanding of EMF effects and will continue to fund research and to monitor worldwide research, and make research results available in a summary form at regional libraries.

B.2 ENVIRONMENTAL IMPACTS

(a) Description

Public interest about general environmental aspects of the project was considerable and has been reflected in a number of sections in this report, including Vegetation Management, Visibility and PCBs.

Specific opinions expressed and interests related to the environment were:

1. Minimizing land use conflicts.

2. Understanding the relative difference of environmental impacts associated with various routing alternatives.

3. Support for the proposed line to follow the existing transmission line corridor where it does not conflict with human habitation. This preference was noted for the following reasons:

   A. Desire to protect natural areas (wildlife and wilderness environment) from disturbance.

B. Value of the wilderness or lifestyle qualities the study area has to offer.

C. Protection of undisturbed landscapes.

(b) B.C. Hydro's Response

In determining the scope of current environmental studies, B.C. Hydro started without assuming any preconceptions derived from past environmental and technical studies conducted for this project in the early 1980s. A new route network was therefore established in 1989 for review, designed to include all technically feasible and economically viable options. This network was extended in 1990 to include further options identified during the initial public consultation program, and options which would bypass Indian Reserves.

B.C. Hydro's environmental coordinator attended public Open Houses and responded to environmental questions at that time.

1,2 The route network was examined by an environmental consulting team in 1989 and 1990, including specialists in terrestrial studies (terrain, vegetation, agriculture, forestry), biological studies (wildlife and fish), and social studies (heritage, land use, aesthetics, recreation and social impacts). Each consultant produced a report describing the environmental features in each segment of the route network, the potential impacts of the project on their subject of interest, and provided a comparison of route options. Volume 1 of the Kelly Lake to Cheekye Substation Second 500 kV Transmission Line Environment Impact Assessment Report presents the major environmental findings, compares the various route options, provides a description of the environmental features and assesses potential impacts. Volume 2 of the Environmental Impact Assessment Report is an atlas which describes the resources within the study area along with an assessment of impact potential for each of the six resource areas studied.

3. The proposed route in the Energy Project Certificate Application includes route adjustments which minimize impact on both the social (human) and physical environment.

(c) B.C. Hydro's Commitment

B.C. Hydro appreciates the importance of both the social (human) and physical environment to residents of British Columbia as well as its customers. Upon project approval and to ensure protection of these environments, B.C. Hydro will prepare an Environmental Management Plan will be submitted for use during construction of the transmission line. This will include measures to be implemented during the clearing and restoration of the right-of-way (ROW). Clearing for the proposed ROW will reflect the standards required to protect members of the public and the transmission line, the recommendations of the environmental consultants, and other related recommendations from the Environmental Management Plan.

B.3 VISIBILITY

(a) Description

General points raised by the public during consultation noted:

1. Wherever possible the proposed transmission line should be routed in a location where it is not visible to local residents or traffic corridors.

2. Hope that the proposed project would allow reduction of existing transmission line visibility as a result of different or improved routing and removal of the 2L1 transmission line.

(b) B.C. Hydro's Response

1. Proposed and alternative routes were reviewed by the public at Open Houses. To improve understanding of the proposed routing computer aided simulations were undertaken subsequent to the

environmental studies for the project. More recently, computer generated view simulations were produced in key locations to assist the public in evaluating the visibility of the proposed transmission line route, in selected locations.

2. In many locations, use of the proposed route will reduce existing transmission line visibility. B.C. Hydro's environmental consultants are of the opinion that by removing 2L1 and locating the new transmission line on the proposed route will reduce the existing transmission line visibility in certain locations, including Seton Portage, D'Arcy, Gates River valley, and Whistler. In some locations, extra clearing will be required along the existing 2L1 ROW to accommodate the proposed 500 kV line.

   B.C. Hydro recognizes the significant development that has occurred in this corridor since construction of the first transmission line (2L1) in 1949. B.C. Hydro's former plan to replace 2L1 with the new 500 kV line has been altered so that only approximately 29% of 2L1's ROW will be utilized for the proposed project.

(c) B.C. Hydro's Commitment

B.C. Hydro will undertake the following measures to address aesthetic concerns and reduce 5L46's visibility:

1. Adjustments to the initial route alignment, which are contained in the Energy Project Certificate Application (EPCA).

2. Make the results of the visual simulations undertaken by consultants available for review to interested individuals, upon request.

3. Consider using flat configuration towers similar to existing ones in specific locations.

4. Utilize non-specular conductor finish from D'Arcy to Cheekye Substation to reduce the visibility of the conductors. Non-specular conductor has a lower value of reflectivity. This results in the conductor being less "shiny" than those now being used.

B.4 PROPERTY IMPACTS

(a) Description

Residents expressed the opinion that the planning for the transmission line project would result in:

1. Uncertainty about the specific location for transmission line ROWs for potential property buyers and sellers.

2. Lack of awareness of the project by property owners.

Residents also noted that the presence of the transmission line would result in:

3. Declining property values.

4. Disturbance to land use and activities.

(b) B.C. Hydro's Response

1. B.C. Hydro has proposed a route (excepting a 2 km section in the Lillooet River Valley) and alternatives in its Energy Project Certificate Application. The final approval and location of the transmission line rests with the regulatory authorities. B.C. Hydro continues to consult with the public in an attempt to confirm a proposed route through the Pemberton Valley. B.C. Hydro is continuing to meet with affected native Bands in the hopes of reaching agreement to route the proposed line across reserve land.

2. The public consultation program was designed to include provision of information to aid potentially affected property owners in understanding the project and its potential impacts. Property owners were encouraged to ask questions and raise issues during public forums with Project Team representatives. B.C. Hydro developed a mailing list to ensure that interested property owners were notified of project progress. Three project newsletters (Summer 1989, May 1990 and February 1991) were distributed to

study are residents (approximately 10,000) and individuals on the mail list (approximately 1,200).

3. B.C. Hydro understands the concern raised.

4. B.C. Hydro appreciates that the presence of a transmission line ROW limits some land use activities and will compensate affected land owners accordingly. Negotiations for property rights will be based on impartial land and timber appraisals.

B.C. Hydro will be required to obtain a new ROW for sections of the proposed route, pending approval of the project. These rights will be acquired either in "fee simple" or by statutory ROW. In some cases easements for access roads may also be required.

(c) B.C. Hydro's Commitment

1. Upon approval by regulatory authorities, B.C. Hydro will advise all property owners directly affected by the approved route alignment of project developments.

2. All property owners directly affected by the proposed or alternative routes were notified by letter and added to a mail list. An accurate list of property owners will continue to be maintained to ensure affected parties are apprised of project developments and encouraged to contact B.C. Hydro if questions arise.

3. B.C. Hydro will undertake a study to assess the impact of transmission lines and declining property values in 1992 and provide the results to interested parties as requested. If the project is approved, a property representative will consult with all directly affected land owners to discuss B.C. Hydro's requirements.

4. During the survey, clearing and construction stages, a B.C. Hydro property representative will act as a liaison between the owner and construction crews or contractors. B.C. Hydro will compensate the owner or repair damages on private land that result from the construction and maintenance of B.C. Hydro facilities.

B.5 RADIO AND TELEVISION SIGNALS IN THE LILLOOET AREA

(a) Description

The Lillooet - Camelsfoot T.V. Association raised concern regarding the potential impact on radio and television signals in the Lillooet are from the proposed transmission line.

(b) B.C. Hydro's Response

Based on a brief technical review, it appears unlikely that there would be any impact from the proposed transmission line on the present quality of the radio or television signal of the present receiver/transmitter.

(c) B.C. Hydro's Commitment

If the proposed project does have any effect on the quality of the signal, B.C. Hydro will correct or address such impacts and ensure that signals subsequent to project completion are not degraded.

B.6 TOWER DESIGN

(a) Description

Public comments on this topic noted that tower design should:

1. Attempt to reduce the amount of clearing for the ROW.
2. Minimize human exposure to electric and magnetic fields.
3. Match the existing "flat" configuration towers in selected locations.
4. Specify the location of towers for private property owners who may be affected.

(b) B.C. Hydro's Response

1. B.C. Hydro proposes to utilize a new "Delta" tower configuration (see Appendix 2 - Figure 5) for most of the line. The delta tower is narrower, and therefore has the advantage of requiring less ROW and clearing.

2. Delta towers also have the added benefit of reducing the electric and magnetic fields levels at the edge of the ROW.

3. B.C. Hydro has considered the advantages of using flat towers (see Appendix 2 - Figure 5) in selected locations to minimize visual impacts, as recommended by its visual consultant.

4. B.C. Hydro will meet with affected property owners to discuss their concerns related to tower location. Requests for specific tower locations will be discussed with interested property owners.

(c) B.C. Hydro's Commitment

1. B.C. Hydro will utilize the "Delta" tower configuration unless recommended otherwise by its visual consultant.

2. Transmission line routes as proposed in the EPCA include several adjustments to reduce land use conflicts and human habitation.

3. B.C. Hydro will utilize flat towers in selected locations as recommended by its visual consultant.

4. B.C. Hydro will meet individually with affected property owners to discuss tower location and identify other concerns.

B.7 FUTURE USE OF 2L1 ROW

(a) Description

Where land presently occupied by 2L1's statutory ROW is not required for the proposed project, property owners indicated a preference for B.C. Hydro to:

1. Remove the 2L1 transmission line.

2. Return use of the 2L1 ROW to the affected property owners.

3. Recondition the 2L1 ROW.

(b) B.C. Hydro's Response

1. In locations where 2L1's ROW is not required for the proposed transmission line, or other utility purposes 2L1, will be removed in accordance with the following guidelines:

(i) Shalalth to Rainbow Substation

Release of the 2L1 ROW/Disposition of 2L1 Property

Transmission line 2L1 will be removed from the Bridge River Generating Station at Shalalth to the Rainbow Substation at Whistler. Its statutory ROW will be released in whole or in part if it is not required for present or foreseeable future use by B.C. Hydro in serving its customers. In the case of "fee-owned" property held in connection with 2L1, and if it is not required for present or foreseeable future use by B.C. Hydro, the property will be disposed of in whole or in part in such a manner as to maximize returns to B.C. Hydro and its rate payers.

(ii) Rainbow Substation to Cheekye Substation

Release of the 2L1 ROW/Disposition of 2L1 Property

South of Rainbow Substation and through the Resort Municipality of Whistler (RMOW), the removal of 2L1 will depend on which route is eventually used. If the route through the RMOW is approved, then 2L1 will be removed between Rainbow and Cheekye and part of its ROW used for the proposed 500 kV transmission line. The release of unused portions of the 2L1 ROW and disposition of unused 2L1 fee-owned property will be in accordance with the above stated guidelines, see page B-11 1.(i).

2. B.C. Hydro will release the 2L1 ROW at no cost to the affected property owners.

3. Where 2L1 is to be removed, it will likely occur in the same time period as the ROW clearing for 5L46. It should be noted that although the 2L1 ROW is 200 feet wide, additional clearing may be necessary to accommodate 5L46, and that the location of 5L46 may have to be moved from the present location of 2L1, because 2L1 is not in the centre of its ROW, for details of line and ROW geometry see B.C. Hydro's Technical Report.

4. B.C. Hydro will dismantle 2L1's towers, remove associated steel and cut the tower legs below ground surface for towers set on soil, where towers are set on rock, the anchor bolts would be cut flush with the top of the concrete pads. On private property, the landowner would be asked to decide how the foundations are to be left.

   After removal of the tower, the holes at each tower leg would be backfilled, the ground surface reseeded, and any access roads specifically constructed for removal of the tower would be restored and reseeded.

(c) B.C. Hydro's Commitment

B.C. Hydro is committed to dismantling 2L1 in accordance with the above noted response which will result in releasing approximately 71 % (93 of 131 kilometres) of 2L1's ROW from Bridge River Generating Station to Cheekye Substation.

B.8 MITIGATION AND COMPENSATION

(a) Description

People in several communities and some local governments identified a desire for some form of compensation from B.C. Hydro, either economic or other, to redress the impacts of the project. People felt they were required to bear the impacts and costs of such developments in return for very limited benefits.

Some of the suggestions for compensation include:

1. Taxation benefits.
2. Community improvements (eg. community centre or recreation site).
3. Improved services such as roadways.
4. Undergrounding distribution lines.
5. Compensation for reduced land use of ROW.
6. Contracting opportunities.

(b) B.C. Hydro's Response

1.,2. B.C. Hydro does pay grants-in-lieu of municipal and regional district taxes. These grants are equal to the sum of 1% of its gross receipts from sales in a municipality plus the value of any taxes it would pay on its land and buildings if it were not exempt.

3. B.C. Hydro will construct or upgrade related access roads to the level necessary for completion of the project.

4. The proposed Kelly Lake - Cheekye 500 kV transmission line is a regulated project, and as such, requires approval by the Minister of Energy, Mines and Petroleum Resources under the Energy Project Review Process. Under the present regulatory guidelines

B.C. Hydro is not in a position to mitigate or compensate for non-project related items (eg. undergrounding distribution lines).

5. B.C. Hydro compensates property owners for rights-of-way across private property (based on impartial land appraisal).

6. Residents attending Open Houses were informed that B.C. Hydro would attempt to package clearing contracts for the proposed line to encourage local contractor participation. Two Local Area Contractors Workshops were held (Lillooet and Pemberton) to inform interested contractors of B.C. Hydro's tendering process, contracting requirements and regulations as well as other contract opportunities not related to the project.

(c) B.C. Hydro's Commitment

1.-5. B.C. Hydro is committed to implementing the above responses numbered 1.- 5.

6. B.C. Hydro will package related clearing contracts in such a way as to encourage local area contractor interest and competition.

B.9 ROW DEVELOPMENT/ACCESS

(a) Description

Questions were raised as to how B.C. Hydro would maintain environmentally responsible practices for access roads for its ROW.

(b) B.C. Hydro's Response

A preliminary access assessment has been prepared for the proposed and alternative routes. This identifies any existing roads that may be used in the construction and maintenance of the new line. It also makes recommendations where the construction of new roads may be required. Upon project approval, B.C. Hydro will carry out a detailed access assessment for the clearing and construction phases of the project.

Appropriate access requirements and environmental considerations (eg. knapweed prevention, culvert replacement etc.) will be reflected in the tender documents for clearing and construction contracts.

(c) B.C. Hydro's Commitment

Adherence to B.C. Hydro's Access Assessment Plan will be supervised by an Environmental Inspector under the auspices of the Environmental Management Plan (EMP). The EMP contains mitigative measures that B.C. Hydro will adopt to reduce environmental impacts resulting from the design and construction of the proposed project.

B.10 VEGETATION MANAGEMENT (APPLICATION OF HERBICIDES)

(a) Description

Public comment received during consultation events revealed:

1. Widespread opposition to the use of chemical herbicides to control vegetation on the ROW. The main concern was the possibility of human health effects from herbicides in domestic water supplies.

2. Biological vegetation control was viewed as the optimum method for vegetation maintenance on ROWs.

3. Support for mechanical or manual means of vegetation control as a method of creating job opportunities in areas where unemployment is high.

4. Support for commercial cultivation of Christmas trees and edible berries on the ROW.

(b) B.C. Hydro's Response

Vegetation management is required to ensure public safety and a reliable and secure source of power. Most power outages are caused by contact with or proximity to vegetation. Where necessary, tall trees and high

brush must be removed to prevent vegetation from interfering with electrical lines. Failure to do so causes short circuits, power outages, fires, and possible injury or even loss of life.

1. For some time, B.C. Hydro has **NOT** been utilizing aerial and other broadcast spraying methods for application of herbicides. Herbicides are applied only under the supervision of certified applicators who are sensitive to cultural and seasonal restrictions, such as the application restrictions during the picking season for edible berries. Agreement from property owners is required prior to any herbicide application on private land.

2. B.C. Hydro's long term vegetation management goal is to encourage the biological control of unwanted tall growing vegetation through establishment of low growing vegetation along our ROWs. Low growing species minimize maintenance (tree trimming etc).

   In achieving this goal, in order of preference, B.C Hydro uses three vegetation management techniques: biological control through the introduction and promotion of low growing native vegetation or cultivated areas; physical control by manual or mechanical cutting; and chemical control through the application of species or site-specific herbicides (aerial herbicide spraying is no longer practised by B.C. Hydro).

3. B.C. Hydro adheres to the provincial regulations regarding the application of herbicides. These regulations establish herbicide-free zones near water bodies and buffer zones to avoid any leaching of herbicides into sources of water.

4. B.C. Hydro usually holds its ROW as an easement over private or Crown lands. Where a private owner wishes to grow Christmas trees, or other compatible vegetation on the ROW, B.C. Hydro will offer full encouragement and assistance, recognizing that its maintenance costs are reduced. Where the Easement is on Crown land, the Crown has the jurisdiction to grant a lease for Christmas tree production or a similar enterprise compatible with the ROW. If such a lease is granted, B.C. Hydro will offer the lessor the same support as a private owner.

(c) B.C. Hydro's Commitment

B.C. Hydro will continue striving to reduce its reliance on the use of herbicides and will not apply herbicides on private land and Indian Reserves without the permission of the owner or Band.

B.11 POLYCHLORINATED BIPHENYL (PCB) STORAGE

(a) Description

At this time, the Provincial Government (Ministry of Environment) has approved a storage site for PCB contaminated waste material at the Creekside capacitor station. Residents in the Birken and Pemberton areas have indicated that, although they feel B.C. Hydro has attempted to safely store PCBs (in accordance with Provincial Regulations), they remain opposed to storage of PCB waste material at the Creekside Capacitor Station.

(b) B.C. Hydro's Response

A public meeting and site tour of the Creekside Capacitor station was held in April 1990 for interested individuals in the Pemberton area to discuss local concerns about PCB storage and for B.C. Hydro to provide information on its storage facility at Creekside Capacitor station.

The storage of PCBs at Creekside meets regulatory requirements and will be phased out when approved destruction facilities become available in the Province of British Columbia.

(c) B.C. Hydro's Commitment

B.C. Hydro has developed a ten year initiative to remove active PCB capacitors from service to safe storage facilities. Current plans for Creekside capacitor station call for capacitors to be taken out of service in 1998. B.C. Hydro will continue to maintain its waste storage facility in accordance with Provincial regulations until a program for permanent

destruction of PCBs is available. The existing number of capacitors to be stored at the Creekside site will only increase by the number required to continue safe and reliable operation of the capacitor station (approximately 30 per year).

B.12 PROJECT RATIONALE

(a) Description

Public opinion in Whistler, Pemberton and Squamish noted:

1. A request for assurance from B.C. Hydro that the proposed transmission line was required to meet domestic load growth and would not be used to export electricity.

2. Opposition to electricity export.

(b) B.C. Hydro's Response

1. B.C. Hydro develops projects to meet its mandate to provide secure and reliable sources of electricity for its domestic customers.

   The Kelly Lake - Cheekye 500 kV transmission line is justified on the basis of need to supply the growing domestic electricity requirements of the Lower Mainland and Vancouver Island.

   Detailed analysis supporting the need for this line to serve domestic load growth is found in separate project justification reports which formed a part of B.C. Hydro's Energy Project Certificate application and will be reviewed by the Regulatory Agencies as part of the Energy Project Review Process.

2. For the past twenty years, B.C. Hydro has routinely been involved in electricity trade on a short-term (six years or less) basis with Alberta and the United States. This is possible because B.C. Hydro operates within an electricity system, allowing electricity to be exchanged with neighbouring utilities.

In 1988, at the direction of the provincial government, electricity trade has been the responsibility of POWEREX (a B.C. Hydro subsidiary). POWEREX has been operating on two distinct business segments: (1) a short-term interruptible "power exchange" for domestic and international customers and producers, and (2) the long-term (more than six years) firm development of private sector generation for contracted services outside B.C.

As of January 1991, private sector independent power producers are now encouraged to pursue their own contracts in the marketplace. It should be noted that the Kelly Lake - Cheekye line is required to meet the domestic electricity requirements of the Lower Mainland and Vancouver Island.

Power which is surplus to domestic needs will be traded on the basis of B.C. Hydro and POWEREX's licenses granted by the National Energy Board and the Ministry of Energy, Mines and Petroleum Resources. Long term contracts and building dedicated generation for export would be the subject of separate regulatory proceedings.

(c) B.C. Hydro's Commitment

The proposal is a "regulated project" under the Utilities Commission Act. As such, B.C. Hydro submitted an Energy Project Certificate Application to the Minister of Energy, Mines and Petroleum Resources. A thorough inter-agency review of the Application is anticipated and will include a review of project justification and evaluation of the potential environmental and social impacts of the project.

1. B.C. Hydro will respond to Agency information requirements as they arise through the Energy Project Review Process.

   B.C. Hydro will demonstrate the validity of its electrical load forecasts and the availability of other resource options that might influence the need and timing of the new line.

2. Long term contracts for export of power have not been included in the project justification for this transmission line. However surplus energy may be traded with neighbouring utilities.

B.13 ENERGY CONSERVATION

(a) Description

During consultation strong support was noted for:

1. Conservation programs.

2. Enhanced conservation by B.C. Hydro and its ability to diminish, delay or remove the need for the new line.

(b) B.C. Hydro's Response

1. B.C. Hydro considers conservation of electricity its first resource option. This option is currently supported by B.C. Hydro's POWER SMART and RESOURCE SMART initiatives in an attempt to forestall development of large energy projects. Conservation initiatives are B.C. Hydro's resource of first choice.

2. In studying the need for this transmission line, conservation initiatives such as Power Smart were included. Present conservation projection suggest that approximately 300 - 400 megawatts (almost two years of load growth in the Lower Mainland) can be realized. Lack of this contribution may have advanced the need for this transmission line, or other system reinforcement.

For more detailed information on Project Justification refer to a separate report titled Project Justification, Kelly Lake to Cheekye Substation Second 500 kV Transmission Line, March 1991.

(c) B.C. Hydro's Commitment

B.C. Hydro will continue to encourage conservation through its public education programs and implementation of conservation and efficiency measures.

B.14 LONG TERM ENERGY PLANNING

(a) Description

During the public consultation process, participants felt there should be more emphasis on long range energy planning including the long term use of B.C. Hydro ROWs. Residents felt that:

1. B.C. Hydro should be planning for the far distant future.

2. Consider doubling up circuits.

3. Construct towers that can accommodate higher voltages.

4. The Kelly Lake - Cheekye corridor has accommodated enough transmission lines.

5. Did not want to experience the disruption of yet another new line (in addition to the current proposal) in the foreseeable future.

(b) B.C. Hydro's Response

1. The challenge for B.C. Hydro, like all other utilities, is to plan for future needs without developing either too much or too little supply. If present trends continue and projections materialize, electrical power needs over the next decade will almost certainly exceed current supplies. Given that more power will be required, then B.C. Hydro must provide the necessary information to the public and the provincial government to make choices on how to meet future needs.

Although B.C. Hydro's electrical system planning operates on a longer range program than 10 years, specific capital project plans are based on a 10 year planning cycle. This is because of the fluctuating nature of load forecasting and the multitude of variable which must be considered in system planning.

2. At this time system planning and engineering requirements do not anticipate the need for higher than 500,000 volt equipment on this right-of-way to service the electrical needs of British Columbia.

3. Specific tower design has been undertaken for this project but does not include designs for double circuit configurations. Presently there are no 500 kV double circuit towers in B.C.

4. B.C Hydro plans to remove one 230 kV line (2L1) and replace it with a 500 kV line, leaving the total number of lines in this corridor the same. During the public consultation program a majority of residents suggested the best location for the new line was within an existing transmission line corridor, where the corridor does not conflict with human habitation. The transmission line routes proposed in the EPCA include several adjustments to minimize proximity to human habitation while balancing wildlife and technical considerations.

5. Residents in Pemberton and Whistler have been informed that B.C. Hydro has no plans to construct another 500 kV line in the Kelly Lake - Cheekye corridor for the foreseeable future (10 years). B.C. Hydro, however does plan to upgrade other portions of the provincial transmission line system (Nicola Substation, near Merritt to Meridian Substation, near Port Moody).

(c) B.C. Hydro's Commitment

1. B.C. Hydro will continue to consult with the public as part of its long term energy planning process. As part of B.C. Hydro's ongoing commitment to involving others in electricity planning, we are currently initiating a program in the Lower Mainland entitled "Electricity Choices" which is designed to help others participate

in developing options and in making choices about how future electricity needs will be met.

2. Given the unique land use patterns and geography of the Lillooet River Valley, B.C. Hydro would consider utilizing double circuit towers across the valley bottom.

3. B.C. Hydro does not have any plans to build towers to accommodate higher than 500,00 volts.

4. B.C. Hydro appreciates the concern of transmission line visibility in narrow corridors or valleys. As part of this project B.C. Hydro plans to release its 2L1 ROW, where it is not required for the new project. This would decommission approximately 93 kilometres of ROW. B.C. Hydro has used the proposed line as an opportunity, where feasible, to improve transmission line routing and in some cases move a transmission line out of valley bottoms.

5. B.C. Hydro cannot accurately predict extremely long range (25 years) electrical consumption. However, in the present 10 Year planning horizon, there does NOT appear to be a need for additional transmission lines within this corridor once the proposed project is in service.

B.16 PUBLIC CONSULTATION

(a) Description

During the course of public consultation activities some participants raised concerns that:

1. Not enough project information was available.

2. The consultation process was not credible.

(b) B.C. Hydro's Response

1. The objectives of the public consultation program were:

   - to foster broad-based understanding of the need for the transmission line and the project planning process;

   - to provide ongoing opportunities for residents in affected communities and B.C. Hydro to exchange information and views, and to report on project specific issues raised by the communities;

   - to stimulate public discussion of alternate routes and provide opportunities for the public to assist in route selection;

   - to demonstrate B.C. Hydro's commitment to respond to community concerns in an open and straight-forward manner.

   B.C. Hydro has conducted two series of Open Houses (totalling 15), which were all advertised in advance in local papers as well as numerous meetings and project presentations during the two years this project has been under study. Project information was provided to area stakeholders and others upon request. The most recent information distribution, August 1991, included approximately 10,000 newsletters.

   At the time of writing, 423 Public Information Requests (PIRs) had been responded to. A toll-free line was established at the outset of the project to expedite PIRs. A number of different means for communicating information to the public were utilized. These included meetings, project presentations, tours, site visits to various stakeholders (provincial agencies, interest groups, property owners and residents). B.C. Hydro is striving to improve its consultation and communication process.

2. Comments made by the public have led to a number of project modifications, including: further route studies and route alignment adjustments which are proposed in the Energy Project Certificate application.

(c) B.C. Hydro's Commitment

1. B.C. Hydro is committed to ongoing consultation with the public on this project. B.C. Hydro has retained a public consultation consultant who will be reviewing previous consultation activities, recommending improvements and is supporting the Project Team in developing ongoing consultation initiatives. B.C. Hydro has notified those on our mailing list (1,300) of the submission of our Energy Project Certificate application (EPCA) and have sent the EPCA and supporting documents to information centres (municipal offices, regional libraries, etc.) for public review.

   B.C. Hydro will continue to maintain its toll free number and will update those on our mailing list of project progress. Specific plans to consult with residents in the Whistler and Pemberton areas are being reviewed at this time.

   Upon project approval, B.C. Hydro will contact all directly affected property owners in person to discuss their interests and will update the mail list on project progress.

2. B.C. Hydro is committed to enhancing its consultation efforts and is utilizing what was learned in the initial phases to ensure meaningful public involvement in Phase Four consultation initiatives.

SECTION C - RESPONSES AND COMMITMENTS TO STAKEHOLDERS

C.1 PROVINCIAL GOVERNMENT

(a) Description

Contact with Provincial Regulatory and Resource Agencies and elected officials formed a part of the consultation program. In addition, B.C. Hydro reports, A Planning Perspective, and a Preliminary Planning Report received an inter-ministerial review through the Ministry of Energy, Mines and Petroleum Resources, Energy Project Analysis Branch. This included comments from Agriculture and Fisheries, Forests, Municipal Affairs, Recreation and Culture, the Agricultural Land Commission, the Provincial Emergency Program, Native Affairs and others. Outstanding issues resulting from Agency meetings are:

1. Ministry of Parks opposition to Garibaldi Provincial Park intrusion at Rubble Creek.

2. Ministry of Forests interest in more detailed information regarding forest resource impacts and transmission line ROW visibility associated with the proposed High Cheakamus route alternative.

3. Transport Canada noted appreciation of the consultation process and upon project approval would complete a detailed review of route alignments for the addition of marker balls to ensure air traffic safety.

(b) B.C. Hydro's Response

Through its public consultation program, B.C. Hydro regularly presented project information, held meetings, and updated Resource Agencies and elected officials.

1. B.C. Hydro project team members met on several occasions with Ministry of Parks staff to provide details on route alignments affecting Provincial Parks.

2. B.C. Hydro met Ministry of Forests (MOF) staff to provide detailed information on the High Cheakamus route alternative. B.C. Hydro recently undertook a forest resource evaluation of the High Cheakamus route and has agreed to meet MOF staff to review its results. We also provided proposed High Cheakamus route details as a part of the MOF's visual quality study of the Sea to Sky corridor.

3. B.C. Hydro met with Transport Canada to discuss general project routing and specific route alignment details in the Lillooet River Valley.

(c) B.C. Hydro's Commitment

B.C. Hydro is committed to maintaining discussions and resolving Resource Agency issues or answering questions as they arise through dialogue, meetings, the Energy Project Review Process or conveying of project information.

1. B.C. Hydro will undertake to identify a route to minimize impact on the park.

2. B.C. is committed to presenting the results of our forestry evaluation for the High Cheakamus route with MOF staff.

3. Upon project approval B.C. Hydro will meet with Transport Canada officials and determine locations which require marking.

C.2 REGIONAL DISTRICTS

C.2.1 Squamish-Lillooet Regional District (SLRD)

(a) Description

The majority of the proposed transmission line route is located within the Squamish-Lillooet Regional District. Contact was initiated with the SLRD in May of 1989 and has continued throughout the consultation process to date.

During Phase 2 of the consultation process, the Regional District created an Advisory Committee made up of community representatives from along the proposed transmission line route. This committee was formed to report area concerns and take recommendations back to the Regional District Board.

The following comments or issues were identified through contact with the SLRD:

1. Potential impact from EMF.

2. Use of herbicides.

3. Transmission line routing.

4. Compensation for transmission line ROW.

5. Visibility of line from residential areas and highway corridors.

6. Support for locating lines away from wilderness areas.

7. Opposition to the Duffey Lake route alternative.

8. Opposition to building energy projects for export purposes.

The Squamish - Lillooet Regional District Advisory Committee (SLRDAC) noted opposition to:

9. The view that "all electrical power must be transmitted from the hinterland of B.C. to the Lower Mainland, without regard to the real cost to the areas through which the power must pass."

The SLRDAC noted support for:

10. Following the existing transmission line corridor, except where this is in conflict with human habitation.

11. Undergrounding the lines or as a last resort replacing in a corridor away from habitation.

12. Integrating transmission line corridors within Municipal and native Band land plans, and buffering by a protective zone.

(b) B.C. Hydro's Response

B.C. Hydro has recently updated (August 1992) all municipalities within the regional district regarding project progress and has responded to the Squamish - Lillooet Regional District Advisory Committee's policy statement.

1. For B.C. Hydro response refer to section B.1 (Electric and Magnetic Field Effects).

2. For B.C. Hydro response refer to section B.10 (Vegetation Management).

3. BC. Hydro's extensive environmental and technical studies as well as a public consultation formed the basis for determining the proposed and alternative routes found in the Energy Project Certificate (EPCA).

4. For B.C. Hydro response refer to section B.8 (Mitigation and Compensation).

5. For B.C. Hydro response refer to section B.3 (Visibility).

6. For B.C. Hydro response refer to section B.3 (Visibility).

7. The proposed line has been located to minimize its visibility on undeveloped and scenic areas, such as the Duffey Lake Road. The Duffey Lake route has not been proposed in the EPCA.

8. For B.C. Hydro response refer to section B.12 (Project Rationale).

9. The Kelly Lake - Cheekye project has not been justified on the basis of electricity export, but rather on domestic needs of the

lower mainland and Vancouver Island. B.C. Hydro does pay grants-in-lieu of municipal and regional district taxes. These grants are equal to the sum of 1% of its gross receipts from sales in a municipality plus the value of any taxes it would pay on its land and buildings if it were not exempt.

10. Some routing adjustments have been made to minimize potential impacts on the natural and human environments.

11. B.C. Hydro has reviewed the associated technical constraints and costs as well as environmental considerations for the proposed project in specific locations. In these cases the costs, both financially and environmentally were found to be prohibitively high (10 - 20 times overhead cost).

12. During the consultation program B.C. Hydro met with all local and regional governments to present project information and answer questions. In some cases this also included municipal planning staff. B.C. Hydro has attempted to meet with all potentially affected native Bands to present project information, determine Band interests and answer questions.

As part of its environmental studies undertaken for the project, land use and socio-economic studies were completed for both the non-native and native communities affected by the proposed transmission line.

The width of B.C. Hydro ROW's are primarily determined by Canadian Standards Association (CSA) recommendations (based on electrical safety standards). B.C. Hydro has not included a special buffer zone beyond the normal distance specified by the CSA.

(c) B.C. Hydro's Commitment

B.C. Hydro is committed to maintaining discussions and resolving issues as they arise through dialogue, meetings or conveying project information. B.C. Hydro supports the role of the SLRD Advisory Committee as defined in its 21 September 1990 letter to

the SLRD and is interested in continuing discussions to resolve concerns.

C.2.2 Thompson-Nicola Regional District (TNRD)

A small portion of the proposed transmission line is within the Thompson-Nicola Regional District. The TNRD has not been actively involved in the consultation process; input has been provided primarily through the Village of Clinton. B.C. Hydro has been keeping the Regional District apprised of project progress since December 1990. No concerns have been communicated by the TNRD.

C.3 TRIBAL COUNCIL/INDIAN BANDS

A description of B.C. Hydro's consultations with the native community (Bands, and Tribal Councils) is contained in a separate B.C. Hydro document, Native Consultation.

C.4 MUNICIPALITIES

C.4.1 Village of Clinton

(a) Description

Clinton was not as actively involved in the consultation process as some other communities, probably due to the fact that the proposed transmission line does not pass near the community. However, it did indicate:

1. Support for utilizing the existing corridor for the proposed transmission line.

2. Concern about EMF effects.

3. Interest in affects on tourism.

4. Interest in local employment opportunities.

(b) B.C. Hydro's Response

1. B.C. Hydro proposes to utilize the existing corridor in this area.

2. Refer to section B.1 (Electric and Magnetic Field Effects).

3. It is anticipated that the proposed project will have a limited affect on tourism. Prolonged road closures are not expected and existing accommodations for temporary work forces appear to adequate.

4. It is anticipated that the majority of contracting opportunities created by the proposed project will be in the area of logging and/or clearing. To encourage local interest two separate full day area contractor workshops were held (Lillooet and Pemberton) to inform interested contractors of B.C. Hydro's tendering process, contract requirements and safety regulations.

(c) B.C. Hydro's Commitment

1. As noted in above response.

2. As noted in above response.

3. The decision to utilize local accommodations will be determined by successful contractors

4. B.C. Hydro will structure clearing contracts to encourage local contractor involvement.

   Additional contractor information meetings would take place in Lillooet, Pemberton and Squamish if the project is approved, prior to letting contracts.

C.4.2 Village of Lillooet

(a) Description

The Village of Lillooet Council noted:

1. Support for utilizing the existing corridor.

2. Opposition to using the Duffey Lake Route, because of the desire to preserve scenic qualities and tourism opportunities.

(b) B.C. Hydro's Response

1. In this area, the application will propose the Bridge River alternative which does not follow the existing corridor but bypasses Reserve property, although routes through those Reserves are shown as alternates in the hope that agreements with the Bands can be reached.

2. The Duffey Lake route has not been proposed in the EPCA.

(c) B.C. Hydro's Commitment

1. If agreement can be reached with affected Bands in time for the 1996 in service date, B.C. Hydro will utilize the existing corridor for the proposed project.

2. As noted in above response (b) 2. above.

C.4.3 Village of Pemberton

(a) Description

B.C. Hydro understands the Council's views are that the:

1. Proposed transmission line may not be required.

2. Lower Mainland is being overbuilt and there is no encouragement to build electrical generation facilities closer to load centres.

3. If the proposed transmission line is necessary, the Council would prefer it to be located away from populated centres.

4. Option of double circuiting 5L46 with 5L42 through the valley should be investigated.

(b) B.C. Hydro's Response

1. See B.C. Hydro response in section B.12 (Project Rationale).

2. B.C. Hydro's options with respect to serving the Lower Mainland are limited by available resources, land use and air quality. Nonetheless B.C. Hydro is investigating available options for the load centres by Independent Power Producers and other sources.

3. Based on input provided prior to May 1991, the energy project certificate application proposed to route the new 500 kV line adjacent to another existing 500 kV line (5L42) approximately 1 km east of the village and to remove one 230 kV (2L1) which traverses the village.

However, other routing alternatives and technical options (including double circuiting) have been studied for the Lillooet River Valley (LRV) and are under review. A report on these additional studies will be forwarded to the Minister of Energy, Mines and Petroleum Resources (MEMPR) as a supplement to B.C. Hydro's EPCA.

4. B.C. Hydro has investigated double circuiting a 2 kilometre section of line through the LRV (at Pemberton). Double circuiting has been included as one technical option for routing in the summary document being prepared for the LRV.

(c) B.C. Hydro's Commitment

1. B.C. Hydro will note the results of studies and public comment on route alternatives and technical options in the summary document which will be forwarded to the MEMPR as a supplement to the Energy Project Certificate Application (EPCA) and forward copies of the summary document to regional information centres.

2. B.C. Hydro will consider utilizing double circuit towers across the Lillooet River Valley.

C.4.4 Resort Municipality of Whistler (RMOW)

(a) Description

In consultation with the Mayor and Council the following information was conveyed:

1. There is currently no consensus on preferred routing options through the Whistler area. Those individuals or groups who support the "Soo-Rainbow" bypass route note its distance from populated areas, and the reduction of visual impacts within the municipality. Others support the replacement of the existing 230 kV line in the Whistler corridor with the proposed 500 kV line, since the impacts are seen to be incremental and the Soo-Rainbow bypass would remain undeveloped for enjoyment by recreationists and others.

2. Some members of the Whistler community oppose additional transmission lines through the Whistler Valley because of the number of lines currently in the area.

3. Members of the Whistler community also believe that the new line is unwarranted.

4. The main outstanding issues from the Mayor and Council is their dissatisfaction with B.C. Hydro's response to a request for inclusion of specific mitigation measures outside the project mandate (eg. the Council would like to see all distribution circuits placed underground along Highway 99 from Bayshores to Emerald Estates), which would cost in the order of $8 million).

(b) B.C. Hydro's Response

1. B.C. Hydro project team members met on several occasions with the RMOW Council, planning staff and committees to provide information and discussing their concerns. The public's attendance at the two scheduled Open Houses was limited. Phase Four Consultation activities will consider other means of involving the public in the Whistler area. However, public comment, along with technical and environmental studies, was sufficient to allow B.C. Hydro to identify a route in the EPCA. The following three options through the Whistler area are possible:

   (i) The removal of the existing transmission line circuit 2L1 through the Municipality and the use of B.C. Hydro's existing ROW for the new Kelly Lake - Cheekye 500 kV transmission line;

   (ii) as above, except that the new Kelly - Lake Cheekye 500 kV transmission line will deviate from the 2L1 ROW in some areas to improve the visual landscape;

   (iii) the Soo-Rainbow route to the west which bypasses the developed portion of the Municipality.

   Route option number two, which is supported by B.C. Hydro's environmental consultants and technical staff, is proposed in the Energy Project Certificate Application

(EPCA). It would appear that this option offers the best compromise.

2. Advanced computer generated visual simulations have been completed to illustrate transmission line visibility in this corridor. See also B.C. Hydro Response in Section B.14 (Long Term Energy Planning).

3. See B.C. Hydro Response in Section B.12 (Project Rationale).

4. The RMOW has been advised of B.C. Hydro's proposed and alternative routes through their municipality by meetings and correspondence dated 18 June 1990, 13 September 1990 and 8 July 1991. Under the present regulatory guidelines B.C. Hydro is not in a position to mitigate or compensate individuals or communities for non-project related items. Mitigation for project related impacts has been included in the proposed routing in the EPC application. See also B.C. Hydro Response in Section B.8 (Mitigation and Compensation).

(c) B.C. Hydro's Commitment

1. The RMOW's position and B.C. Hydro's response have been noted in the EPCA which has been submitted to the Minister of Energy, Mines and Petroleum Resources (MEMPR).

2. If further consultation efforts are undertaken in the Whistler area, (subject to direction or approval of the MEMPR), visual simulations may be utilized as part of the Phase Four program in the Whistler area.

3. See B.C. Hydro commitment in section B.12 (Project Rationale).

4. B.C. Hydro will compensate according to present regulatory guidelines (direct project related impacts only).

See also B.C. Hydro commitment in section B.8 (Mitigation and Compensation).

C.4.5 District of Squamish

(a) Description

Squamish Council members identified the following concerns:

1. The minimal role municipalities have in the review process of Independent Power Producer (IPP) projects.

2. Questioned the need for further transmission lines.

3. Visibility of the proposed line.

(b) B.C. Hydro's Response

1. B.C. Hydro arranged a meeting where the main focus was to provide information about IPPs. B.C. Hydro encouraged the municipality to contact the proponents directly if they had any further concerns.

2. See B.C. Hydro Response in Section B.12 (Project Rationale).

3. See B.C. Hydro Response in Section B.3 (Visibility).

(c) B.C. Hydro's Commitment

1. B.C. Hydro will provide available information on Independent Power Producers and encourage interested parties and proponents to communicate directly with each other.

2. See B.C. Hydro Commitment in Section B.12 (Project Rationale).

3. See B.C. Hydro commitment in section B.3 (Visibility).

C.5 RESIDENTS GROUPS

The following residents listed from north (Clinton) to south (Cheakamus valley) provided comment on the project:

C.5.1 Clinton Residents

(a) Description

Clinton residents identified the following points associated with the proposed transmission line:

1. The hope that the project would create local economic benefits.

2. The view that Clinton would receive limited benefits from the project, but would incur only the costs (such as lost timber values).

3. Concern over health risks from electric and magnetic fields.

4. B.C. Hydro's use of herbicides.

(b) B.C. Hydro's Response

1. The majority of local work related to this project will result from the logging and clearing of the ROW. B.C. Hydro held two, full day, local area contractor workshops to help inform interested contractors understand B.C. Hydro's tendering process and contractual and safety requirements.

2. B.C. Hydro recognizes the limited nature of economic benefits in the Clinton area resulting from the project.

3. See B.C. Hydro response in section B.1 (Electric and Magnetic Field Effects).

4. See B.C. Hydro response in section B.10 (Vegetation Management).

(c) B.C. Hydro's Commitment

1. B.C. Hydro will structure clearing contracts to enable local contractors to tender.

2. B.C. Hydro will advertise clearing contracts in local newspapers and hold at least one further Contractors meeting prior to letting tenders for clearing contracts.

3. See B.C. Hydro commitment in section B.1 (Electric and Magnetic Field Effects).

4. See B.C. Hydro commitment in section B.10 (Vegetation Management).

C.5.2 Lillooet Residents

(a) Description

During the two Open Houses, residents expressed their opinions on a number of issues related to the proposed transmission line. They included:

1. Support for utilizing the existing corridor in this area in order to preserve wilderness areas.

2. A desire to protect the scenic qualities of the Duffey Lake Road for tourism.

3. Potential health risks from electric and magnetic fields

4. B.C. Hydro's use of herbicides.

5. The view that there is a need for a balance between visual and wilderness impacts.

6. The hope that area residents would receive some economic benefits from the project.

(b) B.C. Hydro's Response

1. In this area, the Energy Project Certificate Application (EPCA) does not propose to use the existing corridor but rather the Bridge alternative, which bypasses Reserve property. However the EPCA also contains routes through those Reserves (existing corridor) as alternates in the hope that agreements with the affected Bands can be reached.

2. B.C. Hydro has not proposed to utilize the Duffey Lake route alternative in its EPCA.

3. See B.C. Hydro response in section B.1 (Electric and Magnetic Field Effects).

4. See B.C. Hydro response in section B.10 (Vegetation Management).

5. B.C. Hydro has undertaken studies to determine potential wildlife and visual impacts. B.C. Hydro's technically and environmentally favoured route is along the existing corridor.

6. B.C. Hydro will structure clearing contracts to enable local contractors to tender. B.C. Hydro will advertise clearing contracts in local newspapers and hold one further Contractors meeting prior to letting tenders for clearing contracts.

(c) B.C. Hydro's Commitment

1. B.C. Hydro will continue to meet with affected native Bands in an attempt to reach agreement to use the existing corridor across reserve lands for the new line.

2. B.C. Hydro will not propose the Duffey Lake Route option. B.C. Hydro will attempt to structure clearing contracts to enable local contractors to tender.

3. See B.C. Hydro commitment in section B.1 (Electric and Magnetic Field Effects).

4. See B.C. Hydro commitment in section B.10 (Vegetation Management).

5. B.C. Hydro will continue to meet with affected native Bands in an attempt to reach agreement to use the existing corridor across reserve lands for the new line.

6. If the Project is approved, B.C. Hydro will advertise clearing contracts in local newspapers and hold one further Contractors meeting prior to letting tenders for clearing contracts.

C.5.3 Yalakom Residents

(a) Description

During the consultation program B.C. Hydro met with residents in the Moha area which includes the Yalakom Valley, Antoine Creek and the Applespring Creek area. Local residents voiced the following:

1. Opposition to B.C. Hydro's proposed Bridge River alternative route.

2. Desire to protect their current lifestyle and avoid development in the valley.

3. Potential health effects from electric and magnetic fields.

4. Opposition to, and health effects from, herbicides.

5. Preference for utilizing the existing transmission line corridor.

6. Support for B.C. Hydro taking the time necessary to deal with historical grievances in order to reach agreements with Indian Bands.

(b) B.C. Hydro's Response

1. B.C. Hydro has been meeting or attempting to meet with affected Bands for over two years and is presently pursuing discussions with affected native Bands and the Lillooet Tribal Council in an attempt to negotiate and reach agreements on the right-of-way through Pavilion, Seton Lake and Bridge River Indian Reserves. B.C. Hydro's EPCA proposes the Bridge River alternative (which bypasses Indian Reserves) in this area, although routes through those Reserves (existing transmission line corridor) are shown as alternates in the hope that agreements with the Bands can be reached.

   B.C. Hydro will continue to meet with affected native Bands in an attempt to reach agreement to use the existing corridor across reserve lands for the new line.

2. B.C. Hydro understands the potential social and environmental impacts which may result if the Bridge River alternative is approved and constructed. B.C. Hydro will attempt to minimize these potential impacts.

3. See B.C. Hydro response in section B.1 (Electric and Magnetic Field Effects).

4. See B.C. Hydro response in section B.10 (Vegetation Management).

5.,6. B.C. Hydro will continue to meet with affected Bands in the hope of reaching agreement to construct the proposed line across the technically and environmentally favoured route through reserve lands.

(c) B.C. Hydro's Commitment

1. B.C. Hydro has noted the residents' concerns in the public consultation report and its EPCA will continue to negotiate with the native Bands.

2. B.C. Hydro will attempt to minimize the potential social and environmental impacts on these communities, through adherence to its environmental management plan, if the project is approved and the Bridge alternative is constructed.

3. See B.C. Hydro commitment in section B.1 (Electric and Magnetic Field Effects).

4. See B.C. Hydro commitment in section B.10 (Vegetation Management).

5,6. B.C. Hydro will continue to meet with affected Bands in the hope of reaching agreement to construct the proposed line across the technically and environmentally favoured route through reserve lands.

C.5.4 Birken Residents

(a) Description

Birken residents expressed a number of concerns with the proposed transmission line at the Open House in Phase 1 of the consultation. They are as follows:

1. Potential health effects of electric and magnetic fields.

2. The perceived negative effects of existing and proposed lines on property values.

3. Communities along the existing ROW have already borne the impacts of too many transmission lines.

4. A belief that B.C. Hydro has not addressed the issue of secure PCB storage.

5. The possibility of realigning the new line through the valley and moving it higher up to Seven and Eight Mile Ridges to reduce visual impact

6. A reconsideration of the Duffey and Hurley routes based on their environmental acceptability.

(b) B.C. Hydro's Response

1. See B.C. Hydro response in section B.1 (Electric and Magnetic Field Effects).

2. B.C. Hydro agrees that the presence of a transmission line right-of-way registered on a property has an effect on that immediate impacted property value and compensates accordingly. See also section B.4 (Property Impacts) and section B.8 (Mitigation and Compensation).

3. B.C. Hydro appreciates that the existing Kelly Lake - Cheekye transmission corridor contains four transmission lines. The first line (2L1) was constructed in 1948 and the most recent line (5L42) was built in 1970. Since construction of 5L42 significant growth has taken place in this corridor and B.C. Hydro believes the replacement of 2L1 and selective relocation of the proposed line will have the least impact on existing and future land use. With the construction of 5L42 and the removal of 2L1, the same number of lines which currently exists in this corridor will

remain. See also section B.14 (Long Term Energy Planning).

4. See B.C. Hydro response in section B.11 (PCB Storage).

5. B.C. Hydro investigated the option suggested by some local residents of moving the proposed route for the new line further up the hill side. Members of the Hydro Project Team met with four residents, the day after the Phase 2 Open House to review potential visual impacts from proposed routing within the valley (from Gates Lake to Birken).

   After reviewing Hydro's proposed alignment, two of the four residents agreed that B.C. Hydro's original routing was the better alternative from a visual perspective. The Hydro representatives pointed out that selective clearing would also contribute to reducing visual impact. Further computer assisted visual simulations have been completed which support B.C. Hydro's original routing in this area.

6. B.C. Hydro environmental studies confirm that building a route on either the Duffey Lake or Hurley route would have a higher impact on the natural environment.

(c) B.C. Hydro's Commitment

1. See B.C. Hydro commitment in section B.1 (Electric and Magnetic Field Effects).

2. B.C. Hydro has no plans for the foreseeable future (10 years) to construct another 500 kV transmission line in this corridor. See also B.C. Hydro commitment in section B.14 (Long Term Energy Planning).

3. See above noted response.

4. See B.C. Hydro commitment in section B.11 (PCB Storage).

5. B.C. Hydro will utilize the results of computer assisted visual simulations to find the most favourable route alignment in this area, if the project is approved.

6. B.C. Hydro's EPCA does not propose either the Duffey Lake or Hurley routes.

C.5.5 Pemberton Residents

(a) Description

Consultation with Pemberton Valley residents have indicated the following:

1. Some opposition to routing the proposed transmission line through the Lillooet River Valley.

2. Opinion that the Pemberton valley has been overused for transmission lines.

3. Questioned B.C. Hydro's justification for not using the Elaho or Hurley alternatives.

4. Concern related to potential effects of electric and magnetic fields.

5. Clarification of B.C. Hydro's plans for long-term use of the corridor.

6. Pemberton valley's potential for residential development.

7. Opinion that B.C. Hydro has not addressed the issue of secure PCB storage.

8. Lack of representation on the SLRD Advisory Committee.

(b) B.C. Hydro's Response

1. B.C. Hydro acted on the concerns of area residents and initiated technical and environmental studies on the two additional routes proposed by the residents, as well as other route options identified by B.C. Hydro during the recent field investigation of the area and the design alternative of double circuiting. The study results were recently presented to interested residents in the Pemberton area.

   The results of these studies indicate a technically and environmentally favoured route adjacent to an existing 500 kV line approximately one kilometre east of the village. A clear public preference for a route outside the Lillooet River Valley remains. Hydro's proposal for this area includes removal of one 230 kV (2L1) which traverses the village.

   A Summary Document of the various route alternatives and technical options is being finalized and will be forwarded to the Minister of Energy, Mines and Petroleum Resources as support to B.C. Hydro's Energy Project Certificate Application (EPCA). The Summary Document will also be available for public review at regional libraries and B.C. Hydro district offices in the area.

2. B.C. Hydro appreciates that the existing Kelly Lake - Cheekye transmission corridor contains several transmission lines. The first line (2L1) was constructed in 1948 and the most recent line (5L42) was built in 1970. Since construction of 5L42 significant growth has taken place in this corridor and B.C. Hydro believes the removal of 2L1 through the Village of Pemberton will remove land use restrictions associated with its ROW. With the construction of 5L42 and the removal of 2L1, the same number of lines which currently exists in this corridor will remain.

3. The Elaho and Hurley routes were not considered viable based on their significantly longer length and increased

environmental and economic costs. See the Lillooet River Valley Overview (Introduction 1.2) for more details.

4. See B.C. Hydro response in section B.1 (Electric and Magnetic Field Effects).

5. B.C. Hydro has no plans for the foreseeable future (10 years) to construct another 500 kV transmission line in this corridor. See also B.C. Hydro response in section B.14 (Long Term Energy Planning).

6. Land use studies indicate that the Pemberton Valley is currently within the Agricultural Land Reserve. However, the technically and environmentally favoured route (on the east side and parallel to an existing 500 kV line) could only require approximately 40 metres of additional ROW. Other technical options studied could reduce or eliminate this requirement.

7. See B.C. Hydro response in section B.11 (PCB Storage).

8. Representation on the Squamish - Lillooet Regional District's Advisory Committee was not determined by B.C. Hydro, although Pemberton's concern was brought to the Squamish - Lillooet Regional District's attention.

(c) B.C. Hydro's Commitment

1. The final decision on transmission line routing in the Lillooet River Valley will be determined by the regulatory process. B.C. Hydro will forward the results of its additional studies (including residents concerns) to the MEMPR for review under the Energy Project Review Process.

2. See above noted response (b) 2..

3. B.C. Hydro has not proposed either the Elaho or Hurley routes in the EPCA.

4. See B.C. Hydro commitment in section B.1 (Electric and Magnetic Field Effects).

5. See above noted response and B.C. Hydro commitment in section B.14 (Long Term Energy Planning).

6. See above noted response (b) 6.

7. See B.C. Hydro commitment in section B.17 (PCB Storage).

8. B.C. Hydro remains willing to provide further information to the Squamish - Lillooet Regional District's Advisory Committee, upon request.

C.5.6 Pinecrest Estates and Black Tusk Village (Residents and Property Owners)

(a) Description

In November 1990 B.C. Hydro received a petition from residents indicating their objection to the proposed transmission line in the Squamish-Whistler corridor. Residents were not convinced that alternative low population density routes, e.g. Meagher Creek to Squamish River, had been thoroughly examined.

(b) B.C. Hydro's Response

B.C. Hydro undertook environmental and technical studies on the new west Pinecrest route on the west side of the Cheakamus valley south of Whistler. A meeting in March 1991 was held to review these new studies. At that time the public had an opportunity to review computer assisted visual simulation of the High Cheakamus route. Based on the comments B.C. Hydro received from those that attended the meeting, the High Cheakamus was seen to be the favoured route.

(c) B.C. Hydro's Commitment

As a result of these discussions, B.C. Hydro proposed the High Cheakamus route as the "generally favoured" route for this area in its EPCA.

C.5.7 Cheakamus Residents

(a) Description

Early in the consultation program a group of residents living in the Lower Cheakamus Valley near Squamish whose properties were crossed by an existing line, expressed concerns about:

1. Potential health effects of electric and magnetic fields.

2. B.C. Hydro's use of herbicides.

3. The loss of property with an upgraded line.

4. The process used in B.C. for approving energy projects.

5. The original proposal for replacing 2L1 with 5L42 in the valley bottom.

(b) B.C. Hydro's Response

1. B.C. Hydro's Project Manager, EMF Issues presented information and answered questions from interested residents at a meeting in the Brackendale Art Gallery in mid 1990. See also B.C. Hydro's response in section B.1 (Electric and Magnetic Field Effects).

2. See B.C. Hydro commitment in section B.10 (Vegetation Management).

3. B.C. Hydro compensates individual property owners directly affected by the transmission line ROW (based on impartial land appraisal).

4. At Open Houses and meetings Project Team members explained the Energy Project Review Process and the requirements for an Energy Project Certificate as well as the role of both the Minister of Energy, Mines and Petroleum Resources and the British Columbia Utilities Commission. An information sheet was prepared and provided to interested parties.

5. In response, B.C. Hydro arranged a second meeting to discuss the various sub-options that had been identified through the Lower Cheakamus as well as the newly proposed High Cheakamus route. At that time residents expressed their strong support for utilizing the High Cheakamus route.

(c) B.C. Hydro's Commitment

1. See B.C. Hydro commitment in section B.1 (Electric and Magnetic Field Effects).

2. See B.C. Hydro commitment in section B.10 (Vegetation Management).

3. See B.C. Hydro commitment in section B.8 (Mitigation and Compensation).

4. B.C. Hydro will follow the Energy Project Review guidelines.

5. The High Cheakamus route is proposed in the Energy Project Certificate Application.

C.5.8 Squamish Residents

(a) Description

During Phase 1 of the consultation process, a number of concerns were raised. They included:

1. Potential health effects of electric and magnetic fields.
2. Potential health effects from herbicides.
3. Negative impacts on private property value.
4. Questioned the project justification.
5. Transmission line visibility.
6. The perceived inequitable distribution of costs and benefits.
7. Support for the High Cheakamus route.

(b) B.C. Hydro's Response

In response to concerns expressed by Squamish area residents at the conclusion of Phase 1, B.C. Hydro investigated several alternative route options in the southern part of the study area. Three options were identified through the Lower Cheakamus Valley. During Phase 2 further route clarification was confirmed

1. See B.C. Hydro response in section B.1 (Electric and Magnetic Field Effects).
2. See B.C. Hydro response in section B.10 (Vegetation Management).
3. See B.C. Hydro response in section B.4 (Property Impacts).

4. See B.C. Hydro response in section B.12 (Project Rationale).

5. See B.C. Hydro response in section B.3 (Visibility).

6. See B.C. Hydro response in section B.8 (Mitigation and Compensation).

7. B.C. Hydro undertook additional studies of the High Cheakamus route and presented the findings to interested residents.

(c) B.C. Hydro's Commitment

1. See B.C. Hydro commitment in section B.1 (Electric and Magnetic Field Effects).

2. See B.C. Hydro commitment in section B.10 (Vegetation Management).

3. See B.C. Hydro commitment in section B.4 (Property Impacts).

4. See B.C. Hydro commitment in section B.12 (Project Rationale).

5. See B.C. Hydro commitment in section B.3 (Visibility).

6. See B.C. Hydro commitment in section B-13 (Mitigation and Compensation).

7. The High Cheakamus route was proposed in the EPCA.

C.6 INTEREST GROUPS

The following interest groups (listed from north to south) voiced comment on the project:

C.6.1 Seton Portage - Shalalth Chamber of Commerce

(a) Description

1. One concern identified by both the community the Chamber of Commerce representatives at Seton Portage - Shalalth was the development of the "Highline" road. The Chamber of Commerce made several presentations to B.C.Hydro with regard to their desired improvements of the "Highline" road from Seton Portage to D'Arcy.

2. There is also strong support for utilizing the existing corridor for the proposed transmission line.

(b) B.C. Hydro's Response

1. It is planned to improve the "Highline" road as necessary for construction of 5L46, maintain it for the period of construction, and then discuss its transfer to the Ministry of Forests.

2. B.C. Hydro proposed to utilize the existing corridor for this area in its EPCA.

(c) B.C. Hydro's Commitment

1. As noted in above response (b) 1.

2. As noted in above response (b) 2.

C.6.2 Lillooet - Camelsfoot T.V. Association

(a) Description

This organization raised concern regarding the potential impact on radio and television signals from the proposed transmission line.

(b) B.C. Hydro's Response

In the event that the bypass route option is utilized, it appears unlikely that there would be any impact on the present quality of the radio or television signal of the present receiver/transmitter from the proposed transmission line.

(c) B.C. Hydro's Commitment

If the proposed project does have some effect on the quality of the signal, B.C. Hydro is prepared to take steps to correct or address such impacts and ensure that signals subsequent to project completion are not degraded.

C.6.3 Signal Hill Parents Group

(a) Description

Parents expressed concern over the close proximity of B.C. Hydro transmission lines to the Signal Hill Elementary School due to EMF health concerns. They would like to see the lines removed and an alternate route selected.

(b) B.C. Hydro's Response

B.C. Hydro met with the parents group on several occasions. EMF concerns were addressed by B.C. Hydro's Manager of EMF Effects and transmission line questions were answered by B.C. Hydro's project team members. B.C. Hydro proposes to

route the new 500 kV line adjacent to another existing 500 kV line (5L42) approximately one kilometre east of the school and to remove one 230 kV (2L1) line which is adjacent to the school (subject to additional routing studies as noted previously).

(c) B.C. Hydro's Commitment

As noted in the above response (b). B.C. Hydro will also provide updates on new findings in EMF research to local and regional libraries.

C.6.4 North Vancouver Outdoor School/North Vancouver School District

(a) Description

The School District (and its staff located at the Outdoor School north of Cheekye) were opposed to the use of the existing ROW through North Vancouver Outdoor School (NVOS). The concern was that there would be interruption to the program as well as loss of land to environmental and cultural programs.

(b) B.C. Hydro's Response

After consultation and further route study, the original route replacing 2L1 on its existing ROW was changed to the High Cheakamus route, which is strongly favoured by local residents and others, including the NVOS.

(c) B.C. Hydro's Commitment

If the proposed route is approved, B.C. Hydro will remove 2L1 as well as release its ROW to maximize return to B.C. Hydro and its ratepayers. See also B.C. Hydro commitment in section B.7 (Future use of 2L1 ROW).

C.7 PROPERTY OWNERS

Property owners voiced the following comments on the proposed project:

(a) Description

Through the process of route determination, B.C. Hydro met with numerous property owners to discuss routing preferences. For example, in Squamish site visits were held with potentially affected owners to determine routing preferences and concerns. In Pemberton several meetings were held to present project information to interested residents and potentially affected property owners.

(b) B.C. Hydro's Response

All concerns raised by property owners throughout the consultation program were noted in the consultation report and have formed a part of the route selection process. In some cases, property owner route preferences are reflected in the proposed routing in the EPCA. See also B.C. Hydro response in section B.15 (Public Consultation).

(c) B.C. Hydro's Commitment

B.C. Hydro will continue to deal pro-actively with questions and issue raised by individuals and groups. If the project is approved, all affected property owners will be contacted B.C. Hydro's Properties Representatives so that B.C. Hydro can answer any questions and respond to concerns. Consultation with all private land owners will be conducted to determine their requirements on the finished state of the ROW and desired access routes. See also B.C. Hydro commitment in section B.15 (Public Consultation).

SECTION D - COMMITMENTS TRACKING PROCESS

The purpose of the Commitments Tracking Process is to provide B.C. Hydro's project team with a mechanism to ensure that all commitments made are: recorded; responsibility for fulfilling the obligation has been assigned to a member of the project team; and the current status of action to meet the commitment is recorded.

As a project moves through the various phases of planning, design, construction and operation, this "living" inventory will be expanded by the commitments recorded in other project documents including, but not limited to, the following:

- Access Assessment Report
- Environmental Management Plan
- Line List (which identifies commitments made with specific property owners)

Once a commitment has been fulfilled, it would be removed from the active document that is regularly circulated to members of the project team, but would still be retained in a master list for historical purposes.

Given the diverse needs of individual project team members, it is essential that the commitments can be sorted in several ways. It is proposed to transfer the current Commitment Inventory into a data base with an appropriate coding system that would permit sorting by:

Category	Suggested Alpha-Numeric Code
1. Key Project Concerns	I00 - I99
2. Stakeholders (Recipient of Commitment)	S00 - S99
3. Responsible Team Member	T00 - T99
4. Route Segment (by station, line)	R00 - R99
5. Land Parcel (as appropriate)	L00 - L99

Appendix 1 contains a preliminary legend which lists coding for various Key Project Concerns, Stakeholders and Route Segments (which will be revised if the project is approved).

The prime objective is that each team member could be provided with a listing of all obligations for which he/she was responsible. For example, a construction supervisor responsible for a specific section of the project could identify all the commitments in that route segment and expedite their completion to suit the requirements of the construction program. Similarly, before meeting with any stakeholder or interest group, it would be possible to obtain a listing of all completed and outstanding obligations.

APPENDIX 1 - EXAMPLE OF COMMITMENT DOCUMENT

Appendix 1 provides an example of the "Commitment Document" for two issues raised. It outlines outstanding B.C. Hydro commitments regarding electric and magnetic field (EMF) effects, and radio and television signal impacts. Appendix 1 also provides a prelimiary legend which lists coding for various Key Project Concerns, Stakeholders and Route Segments. Upon approval of the proposed project, a more detailed listing of commitments by Issue and Stakeholder will be prepared along with a revised legend.

ISSUE I01 - ELECTRIC AND MAGNETIC FIELD (EMF) EFFECTS

DATE OF COMMIT.	SOURCE	STAKE-HOLDER	SALIENT COMMENTS	BCH ACTION/COMMITMENT	STATUS	RESPONS. TEAM MEMBER	ROUTE SEGMENT	LAND PARCEL
17 Oct/89	Phone call to: M. Dennison From: B. Swift		M. Dennison raised EMF issues at public information meeting at Pemberton on 11 Oct/89.	Project team members will attempt to resolve the outstanding issues via electric field and induction measurements.	EMF measurements were commissioned and completed at specific locations along the identified corridor. Other meetings have been held with Mr. Dennison and he has been informed of the report findings.	KBG	R00	L00
28 May/90	Letter to: M. Dennison From: J.C. Edwards			B.C. Hydro plans to share report on specific EMF measurements for M. Dennison's property when available. B.C. Hydro will meet again at stakeholder's request.	Awaiting report on EMF measurements. ? To be confirmed before report is finalized.	KBG	R00	L00
19 June/90	Letter to: G. Phare From: K. Gibney		To provide requested magnetic field measurements near her property.	B.C. Hydro will be sending a copy of final EMF report as it relates to her area.	Complete	KBG	R00	L00
August/90	Environmental Report Chapter 5, Page 2		There has been concern expressed by the public over the perceived risk to human health from electric & magnetic field effects caused by high by high voltage transmission lines.	B.C. Hydro continues to participate in research on this topic and is monitoring all available data and new studies throughout the world to ensure it is abreast of any changes. EMF information has been placed in local libraries.	On-going	KBG	R00	L00

ISSUE I01 - ELECTRIC AND MAGNETIC FIELD (EMF) EFFECTS

DATE OF COMMIT	SOURCE	STAKE-HOLDER	SALIENT COMMENTS	BCH ACTION/COMMITMENT	STATUS	RESPONS. TEAM MEMBER	ROUTE SEGMENT	LAND PARCEL
August'90	Environmental Report Chapter 5. Page 13		Birken residents expressed a high level of concern about the potential health effects of EMFs.	Manager of EMF issue attended open houses to address questions raised by public.	Complete	KBG	R29	L04
18 Oct/90	Letter to: P.E. Matthews From: J.C. Edwards		To respond to several points raised in his 18 July/90 letter to K. Farquharson.	B.C. Hydro provided synopsis of conclusion of findings by World Health Organization, NY State Power Lines Project & Health & Welfare Canada.	Complete	KBG	R00	L00
23 Oct/90	Letter to: S. Hinton From: K. Gibney		To respond to 10 September/90 letter to B.C. Hydro re: EMF effects.	B.C. Hydro is investigating the use of a new type of tower (delta) which would help to reduce EMF levels.	Ongoing	KBG	R00	L00
	Response Document and Summary of Commitments			B.C. Hydro will continue to address all EMF inquiries and provide information upon request and at regional libraries.	Ongoing	KBG	R00	L00
	"			B.C. Hydro will continue to fund research, monitor worldwide research and make the research results available.	Ongoing	KBG	R00	L00
	"			B.C. Hydro is available, upon request, to discuss EMF effects.	Ongoing	KBG	R00	L00

ISSUE 105 - IMPACT ON RADIO AND T.V. SIGNALS IN THE LILLOOET AREA

DATE OF COMMIT.	SOURCE	STAKE-HOLDER	SALIENT COMMENTS	BCH ACTION/COMMITMENT	STATUS	RESPONS. TEAM MEMBER	ROUTE SEGMENT	LAND PARCEL
8 May 91	Letter to: S. Chandler From: J.C. Edwards	Lillooet-Cameloot T.V. Association	Lillooet-Cameloot T.V. Association requests confirmation of the potential impact on the radio and T.V. signals from the proposed T.L.	If the proposed T.L does have some impact on the quality of the signal, B.C. Hydro is prepared to take steps to correct or address such impacts and ensure that signals subsequent to project completion are not degraded.	Post approval	JB	Rte	L00

SUMMARY OF COMMITMENTS DOCUMENT

LEGEND

Key Project Issues

Code	Subject
I01	Electric and Magnetic Field (EMF) Effects
I02	Environmental Impacts
I03	Property Impacts
I04	Visibility
I05	Radio and T.V. Signals
I06	Tower Design
I07	Release of 2L1 ROW
I08	Mitigation and Compensation
I09	ROW Development/Access
I10	Vegetation Management
I11	Polychlorinated Biphenyl (PCB) Storage
I12	Project Rationale
I13	Energy Conservation
I14	Long Term Energy Planning
I15	Public Consultation

Stakeholders (Recipient of Commitment)

Code	Subject
S01	Provincial Government of British Columbia
S01.1	Ministry of Energy, Mines and Petroleum Resources
S01.2	Ministry of Forests
S01.3	Ministry of Native Affairs
S02	Regional Districts
S02.1	Squamish-Lillooet Regional District (SLRD)
S02.2	Thompson-Nicola Regional District (TNRD)

Code	Subject

S03 Tribal Council/Indian Bands

- S03.1 Squamish Tribal Council
- S03.2 Pavilion Band
- S03.3 Fountain Band
- S03.4 Bridge River Band
- S03.5 Lillooet Band
- S03.6 Cayoose Creek Band
- S03.7 Seton Band
- S03.8 Anderson Lake Band

S04 Municipalities

- S04.1 Village of Clinton
- S04.2 Village of Lillooet
- S04.3 Village of Pemberton
- S04.4 Resort Municipality of Whistler (RMOW)
- S04.5 District of Squamish

S05 Residents Groups

- S05.1 Clinton
- S05.2 Lillooet
- S05.3 Yalakom
- S05.4 Birken
- S05.5 Pemberton
- S05.6 Garibaldi (Pinecrest Estates and Black Tusk Village)
- S05.7 Cheakamus
- S05.8 Squamish

S06 Interest Groups

- S06.1 Seton Portage - Shalalth Chamber of Commerce
- S06.2 Lillooet-Camelsfoot T.V. Association
- S06.3 Signal Hill Parents Group
- S06.4 North Vancouver Outdoor School/North Vancouver School District

S07 Property Owners

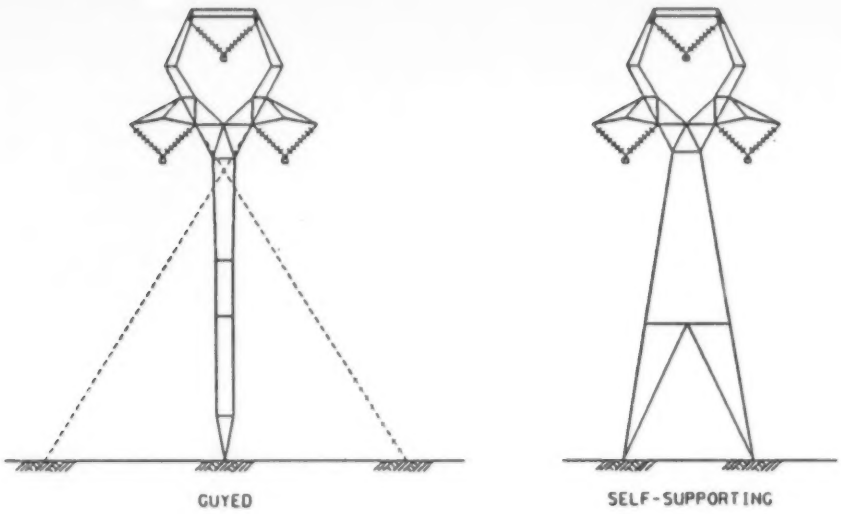
ROUTE SEGMENT
(BY STATION, LINE)

RO1	Kelly Lake	R26	Gates
RO2	Diamond	R27	Duffey
RO3	Pavilion	R28	Pemberton
RO4	Fraser North	R29	Birkenhead
RO5	Camel North	R30	Owl
RO6	Camel South	R31	Green River
RO7	Marble North	R32	Soo River
RO8	Marble South	R33	Ryan
RO9	Fraser Mid	R34	Rainbow Pass
R10	Pavilion South	R35	Whistler
R11	Fraser South	R36	Function 5L42
R12	Cavanagh	R37	Function West
R13	Antoine	R38	Daisy
R14	Big Bend	R39	High Cheakamus
R15	Ore Creek	R40	Canyon
R16	Bridge River	R41	Canyon Cross
R17	North Ridge	R42	Cheakamus East
R18	Mission	R43	Upper Cheakamus
R19	Ridge River	R44	North Loop
R20	Seton	R45	Cheakamus West
R21	Seton Reserve	R46	Lower Cheakamus
R22	Anderson	R47	Wountie
R23	D'Arcy	R48	Loop
R24	D'Arcy South	R49	Brandywine
R25	D'Arcy East	R50	Callaghan
		R51	Cheaknorth

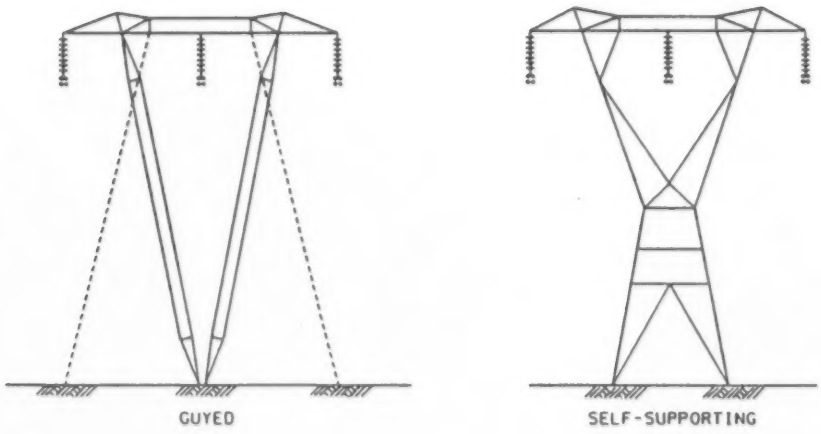
APPENDIX 2

Kelly Lake to Cheekye Substation
Second 500 kV Transmission Line

Figure 5
Outline of Structure Types



a) Typical Delta Configuration



b) Typical Conventional (or Flat) Configuration

Kelly Lake - Cheekye 500 kV Transmission Line Project

REPORT DISTRIBUTION

	Regional Libraries	Municipal Offices
	Name and Address	Name and Address
Information Centres (Regional Libraries and Municipal Offices)	Squamish Public Library Box 1039 Squamish, B.C. V0N 3G0 Phone 892-3110	Squamish Municipal Hall Box 310 Squamish, B.C. V0n 3G0 Phone 892-5217
	Whistler Public Library Box 824 Whistler, B.C. V0N 1B0 Phone 932-5564	Whistler Municipal Hall Box 35 Whistler, B.C. V0N 1B0 Phone 932-5535
	Pemberton District Public Library Box 430 Pemberton, B.C. V0N 2L0 Phone 894-6916	Pemberton Municipal Hall Box 100 Pemberton, B.C. V0N 2L0 Phone 894-6135
	Cariboo-Thompson Nicola Library System - Lillooet Branch Box 939 Lillooet, B.C. V0K 1V0 Phone 256-7047	Lillooet Municipal Hall Box 610 Lillooet, B.C. V0K 1V0 Phone 256-4289
	Cariboo-Thompson Nicola Library System Clinton Branch Box 550 Clinton, B.C. V0K 1K0 Phone 459-7752	Clinton Municipal Hall Box 309 Clinton, B.C. V0K 1K0 Phone 459-2514
	Cariboo-Thompson Nicola Library System Cache Creek Branch Box 429 Cache Creek, B.C. V0K 1H0 Phone 457-9953	Cache Creek Municipal Hall Box 7 Cache Creek, B.C. V0K 1H0 Phone 457-6237

REPORT DISTRIBUTION

	Regional Libraries	Municipal Offices
	Name and Address	Name and Address
Information Centres (Regional Libraries and Municipal Offices)	Cariboo-Thompson Nicola Library System Bralorne-Gold Bridge Branch General Delivery Gold Bridge, B.C. V0K 1P0 Phone 238-2255	
	Mr. and Mrs. Watson Birken Resort P.O. Box 369 Pemberton, B.C. V0N 2L0 Phone 452-3255	
	Attn: Edith Lovey Shalath Library General Delivery Seton Portage V0N 3B0	
	Name and Address	
BC Hydro District Offices	Squamish District Office 1471 Pemberton Ave Squamish, B.C. V0N 3G0 Phone 892-5291	
	Cache Creek District Office Box 39 1393 Quartz Road Cache Creek, B.C. V0K 1H6 Phone 457-6228	
	Lillooet District Office Box 369 Lillooet, B.C. V0K 1V0 Phone 457-6228	